

## Abstract

### Transmit Power Control for Network Devices in a Wireless Network

A transmit power control applicable for direct mode in a central controller based wireless network is described whereby direct mode indicates a direct communication of two network terminals (1, 15) without routing the traffic through the central controller (18). According to the present invention the transmit power control is performed by means of exchanging messages (S1, S2, S3) between the peer network devices (1, 15) in which recommendations for power control are carried. After grant of resources (S0) by the central controller (18) for the peer mobile terminals (1, 15) to exchange such messages which necessarily contain a recommendation to the peer network device to increase/decrease its transmit power level by a certain value, a first message (S1) is send from one network device (1) to the other network device (15) which receives this message and measures its signal strength to determine the needed adjustment to set the transmit power level of the first device so that a desired received power level of the second device is achieved. This adjustment value is then transmitted in a second step (S2) as recommendation value whereafter the first device can similary recommend an adjustment of the transmit power level of the second device on basis of the message received in the second step (S2) in a third step (S3).

(Fig. 2)

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